



The Southern California Chapter  
of the AVS Science & Technol-  
ogy Society

### Special points of interest:

- Speaker Meeting at UCI
- Congratulations to Larry Oberlander, new Chair of the Southern California Chapter AVS
- SCCAVS supports San Diego High School Science and Engineering Career Fair
- Field Trip to Bolthouse Farms in Palmdale planned for April

### Contact Us:

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### Members at Large:

Linda Ellsworth  
Corinne Freeman  
Tammy Kim  
Greg Mills  
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Dick Madison, Past-Chair

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# SCCAVS Newsletter

March 2009

## Message from the Chair

*Contributed By: Larry Oberlander*

2009 is well under way. We hope your year is off to a good start. Your SCCAVS board has already had two meetings. We are busy planning for the new year. Remember, we at the Southern California Chapter are here for you. Our goal is to make a difference for you by providing worthwhile events and services. Here is a look at some activities that are available to you in the coming months.

Our first event will be a dinner/speaker meeting at UC Irvine University Club. SCCAVS presentations are designed to be of interest to anyone in the greater technical community, including the vacuum and thin film industries. This presentation will be a general overview, at a level that will be useful for managers, technicians, students, or sales engineers. We are privileged to have Bill Sproul presenting on the topic of High Power Pulsed Magnetron Sputtering. Bill has written 158 technical articles and has served in leadership positions with three national and international coating societies (AVS, SVC, and



**Bolthouse Farms-** 1.9 Megawatt Solar Power System in Palmdale, California. Designed and installed by Regenes Power, LLC using 10,300 high-efficiency solar panels from Mitsubishi Electric, the new ground-mounted photovoltaic solar arrays employ a tilted single-axis tracking system that follows the sun during the day for greater efficiency—maximizing energy production.

ICMCTF). You will appreciate this popular speaker who has used vacuum techniques to develop processes for the coating industry. Further details are elsewhere in this newsletter. We would love to meet you at this event so come by and enjoy a delicious dinner followed

by an informative presentation. Remember dinner meetings make excellent opportunities for technical networking.

Plans are also in the works for a Saturday trip to Bolthouse Farms in Palmdale. Bolthouse Farms ships 35,000 tons of car-

## High Power Pulse Magnetron Sputtering Speaker Meeting

*Linda Ellsworth*

The SCCAVS is sponsoring a dinner/speaker meeting on High Power Pulse Magnetron Sputtering presented by William D.

Sproul, Ph.D. The event will be held at the University of California Irvine campus on March 24th, 2009 at the University Club. Registration forms are available online at our website

[www.sccavs.org](http://www.sccavs.org) or email [linda@sccavs.org](mailto:linda@sccavs.org) for more information. The cost is \$20 per person or \$10 for students and includes choice of entrée and presentation attendance.

**SOUTHERN  
CALIFORNIA  
CHAPTER OF THE  
AVS SCIENCE &  
TECHNOLOGY  
SOCIETY**

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**We're on the web!**  
[www.sccavs.org](http://www.sccavs.org)

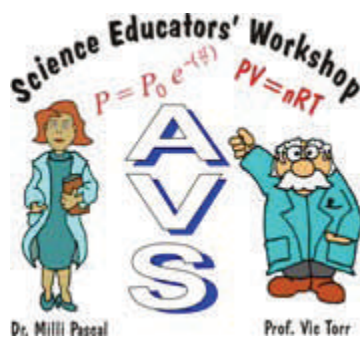
**Upcoming Events:**

**ICMCTF**  
April 27-May 1, 2009  
Town and Country  
Hotel  
San Diego, CA

**SVC**  
May 9-14th  
Santa Clara Con-  
vention Center  
Santa Clara, CA



**Science and Technology of Materials, Interfaces, & Processing**



**AVS Science Educators' Workshop  
November 8-10, 2009**

The AVS Science and Technology Society has conducted an in-service workshop on low-pressure experiments and modeling for middle and high school science teachers since 1990. Teachers are sponsored by regional Chapters of the Society with all expenses paid by the sponsoring Chapter.

The workshop is divided into two parts: (1) lectures on the underlying science and the mathematical calculations and (2) hands-on experience in which a group of teachers perform experiments and develop models under the guidance of an instructor team.

Upon completion of the workshop, teachers receive at no cost:

- A certificate of completion
- 1.4 Nationally certified CEU's
- A vacuum system for their school identical to ones used in the workshop

The next workshop will be held in San Jose, CA from November 8-10, 2009 at the AVS 56<sup>th</sup> International Symposium & Equipment Exhibition. Interested teachers can find registration information at [www.sccavs.org](http://www.sccavs.org) (click on Science Educators' Workshop 2009) or at the National AVS website at [www.avs.org](http://www.avs.org) (click on Education & Outreach, then click on Science Educators' Workshop).

For more information please contact Corrine Freeman at [corinne@sccavs.org](mailto:corinne@sccavs.org). The deadline for submissions is June 30, 2009.

**Message from the Chair (Cont'd)**

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-rot products each month and is North America's leading brand of super-premium refrigerated juices. Why visit a farm? This fourth generation farm just installed a 1.9 MW solar tracking array designed and installed by Regensis Power, LLC. The array will meet 80% of Bolthouse's electricity needs while leaving less impact on the environment. We are privileged to tour the facility in April. That just happens to be wildflower season in the area. Why not make this an outing to enjoy with friends and family too? Check your email for dates and registration information. We welcome input from you, our readers, for other activities

or services of interest. Last year we held an equipment exhibition and short course program in conjunction with the Physical Electronics Conference held at UC Riverside. We are looking for a similar partnership opportunity this year. Perhaps you know of a local conference we might team with for short courses, workshops, and perhaps an equipment exhibition. We would love to know. Do you have a suggestion for a field trip topic or location? Would your company have a product, process, or service you would like to share with fellow industry professionals? If you provide us with contact information, we will work out the details. Likewise, we hope to have

other dinner meetings on topics of interest to our membership. We are open to fresh ideas. You can provide your input by contacting any of the committee members. Our contact information is available on the first page of this newsletter. The SCCAVS executive committee meets monthly and welcomes your participation. During these meetings we plan the events and activities for our membership. They provide networking possibilities and it never hurts your resume or annual review that you participate in a technical society. It is one way you can positively affect others involved in science and technology.  
-Larry Oberlander, Chair